I "Express Mail" mailing label number EL 743 379 593 US. I hereby certify that this document and referenced attachments are being

deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR § 1.10, addressed to: Commissioner for Patents, Box Patent Application, Washington, D.C. 20231 on 5 - i - 2 1 Commissioner for Patents, Box Patent Application, Washington, D.C. 20231 on

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Bandman et al.

Title: HUMAN RETICULOCALBIN ISOFORMS

Serial No.: To Be Assigned Filing Date: Herewith

Examiner: Robinson, P. Group Art Unit: 1653

Official Draftsman

Commissioner for Patents Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figures 1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 3A, 3B, 4A, 4B, 5A, 5B, and 5C, as eighteen (18) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 09-0108. A duplicate copy of this communication is enclosed.

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted.

INCYTE GENOMICS, INC.

Richard C. Ekstrom

Reg. No. 37,027

Direct Dial Telephone: (650) 843-7352

3160 Porter Drive

Palo Alto, California 94304

Phone: (650) 855-0555 Fax: (650) 845-4166

1994 FBIC ALBICA

54 ATG M	108 GGG G	162 GCC A	216 CAT H	270 GAG E	324 GAC D	378 CAG Q
ATG M	CAG Q	CAG GCG	TAC GAC Y D	ACC CCA T P	GCG GGG A G	ACG T
CCG	GCC	CAG Q	TAC Y	ACC	GCG	CAC H
45 GGA	99 666 6	153 CAC H	207 2AG 2	261 CTC L	315 2GC	369 GCG A
AGG	CAC H	GTG V	TTC	CAA Q	GAC D	ATC
36 3 GAT AAC AGG G	O G AGG (C R F	AGG GTG (R	198 GGG AAC TTC (G N F (261 GAC CAA CTC A D Q L 1	ATG GAC O	TGG W
36 GAT	C.J.	44 366	198 GGG G	252 TTC F	306 CGC R	360 GCG A
CTG	CTA	CAG Q	CAC H	GAA E	GAC D	260
27 CGN CAG CTG (TTG		GCC	AAG K	GTG GAC (V D D	$^{ m CTT}_{ m L}$
27 CGN	81 CTG	135 CAT GGC CAG G H G Q G	189 GAC GCC CAC C D A H C	243 252 3 GCC AAG GAA TTC G A K E F D	297 ATC I	351 GAG CTT (E L I
18 GAG AGC GGA C	CTT	126 GCA GGC CCT C A G P F	CAT GAT (GAA GTG (E V	GGG CGG R	CTG GCC C
AGC	CTG	9 9	CAT H	GAA E	999	CTG L
18 GAG	72 CTG	126 GCA A	180 CCC P	234 CGG R	288 CTG L	342 TCG S
GTG	GTT V	GAC	GCT.	GGA	CGT R	GTG V
GAC	TCA	CCA P	GAC D	CTG L	GCC	TGG W
909	63 CCA P	117 TCC S	171 AGC S	225 TTC F	279 CAG Q	333 GGC G
9 CGC AGA GCG GAC GTG	CGA R	CCA P	CTG	GCT	AGC	GAC D
292	TGG W	AAG K	CCC	GAG	GAA E	9

FIGURE 1A

405 414 423 432 TCG GTG AGC GCC TGG GAC ACG TAC GAC ACG GAC S V S A A W D T Y D T D	486 TAC Y	540 ATG M	594 ATG M	648 ATG M	702 AAA GAT GGC K D G	756 GAG E
ACG	GGC CAC G H	AAG K	TCG	603 612 621 630 639 648 CGA GAG GAG CTG ACA GCC TTC CTG CAC CCC GAG GAG TTC CCT CAC ATG R E E L T A F L H P E E F P H M	GAT D	999
GAC D	9 9	AAA K	GAC D	CCT	AAA K	CCT
423 TAC Y	477 TAT Y	531 TAC Y	585 GGG G	639 TTC F	693 AAC N	747 GAG E
ACG T	ACC	ACC	GAT D	GAG	AGA R	GCC
GAC D	B 477 C GCC ACC TAT GC A T Y G	GAG	CAG Q	GAG	GAC	TCA
414 TGG W	459 468 3 GAG CTG CGC AAC G E L R N A	522 GCA A	576 GAC D	630 CCC P	684 CTG L	738 TAC Y
GCC	CGC R	GAT D	GCC	CAC H	GAC D	CTG L
GCG A	CTG L	GAG	GTG V	CTG L	GAG	720 729 GAG TAC ATC GCG GAT CTG E Y I A D L
405 AGC S	459 GAG E	513 GTG V	567 CGG R	621 TTC F	675 CTG L	729 GCG A
GTG V	GAG	GAC	TTC	GCC	ACC	ATC
TCG	TGG W	CAT H	CGT R	ACA T	GAA E	TAC Y
396 ATA CGG GAC 1 I R D S	450 CGT GTG GGT TGG GAG R R V G W E	504 TTT F	558 CGG R	612 CTG L	666 GCT A	720 GAG E
CGG R	GTG V	GAA E	GAG	GAG	ATT I	GAG
ATA I	CGT R	GAA E	GAC D	GAG	GTG V	GTG V
387 CAC H	441 GGG G		549 CGG	603 CGA (657 ATC I	
387 CGG CAC I	GAC D	CCC	GCT A	ACT T	GAC	GTC
CAG	CGC R	GCG	CTG L	GCC	CGG R	TAT Y

FIGURE 1B

FIGURE 1C

810 GAT D	864 CCC P	918 GAC D	972 ATG M	.026 GAT D	080	134 CAG
CGG R	CTG	AGC	AAC N	CAC H	1 GAC	1 AGG
TTC CGG F R	GTG V	GAG E	TGG W	CAC H	AAT	AGG
801 GAC D	855 TGG W	909 CAC H	963 AAT N	.017 CGG R	.071 CAC	125 CGC
CGG R	CAC H	CTG	GGT G	ACC T	1 CCG	CCC
TTC CGG (F	999	CTG	CTG L	CTG L	299	AGG
GCG TGG GTG CAG ACG GAG CAG CAG A W V Q T E R Q Q	846 GTG V	900 CAC H	954 ATC I	.008 GAC D	.062 AGA	.116 TCC
CAG Q	GAG	AAC N	GAA E	GAG E	CTC	CTG
AGG R	AGT	GCC	GCG A	9 9	AGC	TCC
783 GAG E	837 GGG G	891 GAA E	945 AAA K	999 TAT Y	.053 CAC	107 CCC
ACG T	GAT D	GTG V	AGC	AAC N	TGC	1 GCC
CAG Q	CTG L	$_{\rm L}^{\rm cTG}$	CTG L	ACC T	ACC	CTG
774 GTG V	828 CAC H	882 CCC P	936 CGG R	990 GCC A	.044 CGC	098 GGT
TGG W	999	CAG Q	999	CAG Q	CCG	1 TGT
GCG A	GAT D	GAC D	GAT D	AGT	GCA	CGC
765 CCG P	819 AAG K	873 CAG Q	927 AAG K	981 GGC G	.035 TGA	089 GGC
GAG GAG CE E I	AAC N	GCC A	GAC	GTG	1035 1044 1053 1062 1071 1080 GAG CTG TGA GCA CCG CAC TGC CAC AGC CTC AGA GGC CCG CAC AAT GAC CGG E L	1089 1098 1107 1116 1125 1134 AGG AGG CGC TGT GGT CTG CCC TCC CTG TCC AGG CGC AGG AGG CAG
GAG	CTG	CCT	ACG T	981 990 999 1008 1017 1026 TTT GTG GGC AGC ACC AAC TAT GGC GAG GAC CTG ACC CGG CAC CAC GAT F V G S Q A T N Y G E D L T R H H D	GAG E	AGG

color, soetheed

1188 GGT CGG	1242 CCA GAG	1278 1287 1296 CCC AGC CCA GAC CCT	1350 TCT GAG	1404 TGG CCT	1458 GGA AAA	
CTG	GTC	999	AAA	೨೦೨	900	
1179 GAC CCC CTG	1233 ATA	1287 CCA	1341 TCC	1395 CCT	1449 CCA GCG CCG	
GAC	GTC	GAC	AGC	TCT	CCA	
AGG	GCT	CCA	TCC	ಖು	AAG	
1143 1152 1161 1170 CAG TCC TCC TCC TCC TCC TCC AGG	1215 1224 1233 CAA CCC CAG GGA GGG GCT GTC ATA GTC	1278 : AGC	1314 1323 1332 1341 AGC TCT AAG AAC CGC CCC AAC CCC TCC AGC TCC AAA	1386 1395 CCC CAG CCC TCT CCT GCC	1440 CAA TAA AAG	
GCT	GGA		AAC			
TGG	CAG	TCT	ညည	TGG	AGG	
1161 CCC	1215 , ccc	1269 ACT GAG TCT	1323 CGC	1377 CTC CCC TGG	1422 1431 CTC CTC TCT GCC AGG AGG	
TGC	CAA	ACT	AAC		GCC	
TCC	1206 TCA CAC CCC	1260 CTA TTT CTG	AAG	AAA	TCT	
1152 . TCC	1206 . CAC	1260 TTT	1314 TCT	1368 . CTG	1422 : CTC	
GCA	TCA		AGC	AGA	CTC	
CAG	CTG	TAC	CTC	CAT	CAC	
1143 TCC	1197 CTG TCC	1251 AAG CAA TAC	1305 CCC AAG CTC	1359 1368 CCA CCA CAT AGA CTG AAA	1413 CTG GGA CAC	
	CTG		CCC		CTG	AA
ATG	CTT	GAT	299	CCT	299	AAA AA

FIGURE 1D

The state of the s

54 GCG	108 ATG M	162 AGC S	216 AAG K	270 GCT A	324 CTT L	378 GAT D
TGA	ATC	GCC TTG A L	GAC D	TTG GGT	AGG R	GTG V
45 GGT GGG	ATT	GCC	AGT S	$\mathop{\mathrm{TTG}}_{\mathrm{L}}$	GAA E	ACT T
45 GGT	99 CTA	153 TTT F	207 CTC L	261 ITC F	315 AAG K	369 GTC V
വാ	GAT	GCC	CAG Q	GCC	AGC	$_{ m F}$
36 GTG AGC TGA (81 90 GGG GCT ACG AGG AAA	ACA	CCT	AAT	GAG	999
36 AGC	90 AGG	144 TGC C	198 GAG E	252 TAT GAC CAT G Y D H L	306 GAA E	333 342 351 360 ATT GTA AGT AAA ATA GAT GGC GAC AAG GAC I V S K I D G D K D
GTG	ACG	CTG L	CAT H	GAC D	CCA P	AAG K
CGC	GCT	TCC CTG	CAT H	TAT Y	ACA CCA O	GAC
27 GCG	81 GGG	135 CTG	189 GTA V	243 GAT D	297 CTG	351 GGC G
CTT	GTG	ATG TGC M C	180 AAG GAC CGT K D R	TTT F	GAT CAG O	GAT D
18 GCG GTG	72 TGT GCT	ATG M	GAC	AGT '	GAT D	ATA I
		126 CTT L	180 AAG K	234 CAG Q	288 I'I'I	342 AAA K
TGG	TCC	TTT F	AAG K	GCT A	ACC	AGT
GGT	63 ACG GCA	CAG	GAA Z	GAT D	AAG K	GTA V
9 TCC GGT 1	63 ACG	117 CGA R	171 ACA T	225 AAT N	279 GCA A	333 ATT I
SCI	000	CTG L	CCC	CAC H	GAA E	AAG K
CCC	909	GAC	AAA K	GTT V	GAA E	GGA G

FIGURE 2A

4 32	486	540	594	648	702	756
GTA	GAG	GAT	GCA	CAC	GAT	ATG
V	E	D	A	H	D	M
GAT	TGG	GAT	ATG	CTG	GAA	GAC
D	W	D	M	L		D
GAG	TCC	CCT	AAA K	TTC F	ATG M	GGT G
423	477	531	585		693	747
TAC	GTT	GAT	TTT		ACA	ATT
Y	V	D	F		T	I
ATT	CTC	CCA	AGG	ACA	GAA	TAT
I		P	R	T	E	Y
TGG	999 1	GAT D	CGG R	T'TC F	CAG Q	GAG
414	468	522	576	630	684	738
CGC	GAC	GAT	GAG	GAG	GTA	GAA
R	D	D	E	E	V	E
AAG K	GAG	TTA L	GAT D	GAG	GTA V	
CAA	AAT	GT'T	AGA	AAG	ATA	
Q	N	V	R	K	I	
405	459	513	567	621	675	
GCA	CTC	TAC	GTT	ACC	GAT	
A	L	Y	V	T	D	
TTT F	GAC D		ATG M	GCC	AAA K	TTC
AAA	CAT	TAC	ATG	ATT	ATG	GGT
K	H	Y	M	I	M	G
396	450	504	558	612	666	720
ATT	GGG	ACC	CAG	CTC	TAC	GAT
I	G	T	Q	L	Y	D
TGG	AAG	GCC	AAA	GAC	GAC	GCT
W	K		K	D	D	A
GAC	TGG W	AAT N	TAT Y	GGA	TAT Y	AAT N
387	441	495	549	603	657	711
AAA	CAG	AAA	AAC	GAT	GAG	AAG
K	Q	K	N	D	E	K
CTC	CGA R	TAT Y	TTT F	AAG K	GAG	GAT D
GAG E	GAG E	GAG	GGA G	GAC	CCT	ATA I

FIGURE 2B

810 GAG E	864 GAG E	918 AGG R	972 GAG E	.026 GAG E	1080 r CAA	1134 TGA
CGA R	GAA E	GCC	GAG	GGG G	CCT	1 TAC
GAG	AAG K	GAA E	AAG K	TTT F	TTT	ენე
801 ACA T	855 GAC D	909 GCA A	963 ACC T	.017 GAT D	.071 TCA	125 TTG
AAG K	ATG M	GAG	CTT	ACA T	CCC	1125 TGT TTG
GTA V	AAG K	GCA A	AAG K	GCC	GAA	AAT
792 TGG W	819 828 837 846 855 864 CAG TTT GTT GAG GAT AAG AAC CGT GAT GGG AAG ATG GAC AAG GAA GAG Q F V E F R D K N R D G K M D K E E	900 CAT H	954 GGC G	.008 CAG Q	.062 GAG	1089 1098 1107 1116 1125 1134 AAG TAA TTT ATT TTT ACA GCT TCT GGT TTC ACA TGA AAT TGT TTG CGC TAC TGA
GAA E	GAT D	GAT D	GAT D	AGC S	ACG	1 ACA
CCA P	CGT R	TAT Y	AAG K	9	GCT	TTC
783 GAG E	837 AAC N	891 GAC D	945 AAC N	999 GTT V	.053 TGA	.107 GGT
GAT D	AAG K	TCA	CAA	TYTT F	1 TTC F	1107 TCT GGT
ACT	GAT D	CCC	GAC	TTA L	GAG	GCT
774 AAT N	828 CGG R	882 CTT L	936 TCA S	990 GAC D	.044 GAT D	1098 ' ACA
999	TYYY	ATC I	GAA E	TAT Y	CAT H	$^{1}_{\mathrm{TTT}}$
GAT D	GAG	TGG W	TAT Y	AAG K	CGG R	ATT
765 CAT H	819 GTT V	873 GAC D	927 GTC V	981 GAC D	.035 GTA V	1089 1TT
AGC	TYI'T F	AAA K	CTG	GT'T V	1 TTA L	1 TAA
TAC Y	CAG Q	ACC AAA GAC TGG ATC CTT CCC TCA GAC TAT GAT CAT GCA GAG GCA GAA GCC AGG T K D W I L P S D Y D H A E A E A R	CAC H	981 990 999 1008 1017 1026 ATC GTT GAC AAG TAT GTT GTT GCC AGC CAG GCC ACA GAT TTT GGG GAG I V D K Y D L F V G S Q A T D F G E	GCC TTA GTA CGG CAT GAT GAG TTC TGA GCT ACG GAG GAA CCC TCA TTT CCT CAA A L V R H D E F	AAG

FIGURE 2C

1143 1152 1161 1170 1179 1188 GAC TGT TAC TAC AAA CTT TTT AAG ACA TGA AAA GGC GTA ATG AAA ACC ATC CCG	CTC CTC CTC TCT GAG GGA CTG GAG GGA AGC CGT GCT TCT GAG GAA	1296 PAT GTA TTA 1350 PAT GAA GGA	1395 1404 CTT TAC TCT TTC TCA	1422 1431 1440 1449 1458 ATT TTA ATA ATT CTC ACT TAA CTA ATT TTG TAA GCC TGA GAT	1476 1485 1494 1503 1512 TTC AGG AGA GAA AGA AAA AAA ATA TAT GCT CCA CAA TTT	1566 AT TTC ATA	1620 CT GAA CCT
1179 ATG AAA	1233 CGT GCT 1	1287 TTG TAT 1 1341 GTA TGA 1	1395 CTT TAC 1	1449 TTG TAA G	1503 TAT GCT C	1557 GTC CAA C	1611 CCA GCA A
GTA	AGC	ACT	GCT	ATT	ATA	AAA	GGT
1170 AAA GGC	1224 GAG GGA	1278 ATT TAC 1332 TGG TTG	1386 ACA TTA	1440 TAA CTA	1494 AAA AAA	1548 TGT CAA	1602 GCT ATA
TGA	CTG	TAG	CAA	ACT	AGA	200	GTT
1161 AAG ACA	1215 GAG GGA	1269 TGT TTG 1323 ATT TTT	1377 TGT AGA	1431 ATT CTC	1485 GAG GAA	1539 AGT CTT	1593 CAT TCA
TTT	TCT	TTG	ACA	ATA	AGA	CTT.	TTA (
1152 AC AAA CTT	1206 TC CTC CTC	CAA CTC TAA TTA GTA CAC TTG TGT TTG TAG ATT TAC ACT TTG TAT GTA TTA TTA GTA TTA 1350 1314 1323 1332 1332 1341 1350 ACA TGG CGT GTT TAT TTT TTT TTT TTT TTT TTT TTT T	1359 1377 1386 TCA AGA TCC TCA ACT CAC ACA TGT AGA CAA ACA TTA GCT	1422 ATG ATT TTA	1476 IG TYC AGG	1521 1530 1548 1557 1566 ATA TYT AGA GAG AGA ACA CYT AGT CYT GCC TGT CAA AAA GTC CAA CAT TYC ATA	1575 1584 1593 1602 1611 1620 3GT AGT AGG GGC CAC ATA TTA CAT TCA GTT GCT ATA GGT CCA GCA ACT GAA CCT
1143 TAC T	1197 CCA TTC C	1251 TAA T 1305 CGT G	1359 TCC T	1413 CCT TTT A	1467 CAA TAA GAA ATG	1521 ' AGA GA	1575 ' AGG GO
TGT	CCA	CTC TGG	AGA	CCT	TAA	í TTT	1 AGT
GAC	TCC	CAA	TCA	ACC	CAA	ATA	GGT

FIGURE 2D

FIGURE 2E

1674 . AAT	1728 . AGC	1782 GTG	1836 ; AAA	1890 AAA	1944 . CGG	1998 ' TAA	2052 ' GGT	2106
A Y	1. Y	1. A (7 g	1890 TTG AAA	15	15 T T	20 T G	21 T G
S	Ţ	5	A		AT	¥.	AA	TT
1638 1647 1656 1665 1674 GCA AGG AAA GAT CCC TTT GCT CTA GGA AAG CTT GGC CCA AAT	1683 1692 1701 1710 1719 1728 TTT TCT TCT TCC CCC TGT AGG ACT GAC TGT TGG CTA ATT TTG TCA AGC	1737 1746 1755 1764 1773 1782 GCT GTG GTG GGA AGA GTT AGG GCC AGT GTC TTG AAA ATC AAT CAA GTA GTG GTG	1827 1836 GAA AAC TAA AGG AAA	1881 GTG CAT CTG	1917 1926 1935 1944 CCT TTT GAA ATC ACT GTA AAT GCC CCC ATC CGG	1971 1980 1989 1998 CCA AGG AAT TAA TCT TGG TTT CAC TAC AAT TAA	2016 2025 2034 2043 2052 TCC AAT CAT GTC ATT GAA AGT GCC TTT AAC GAA AGA AAT GGT	2106 CTA TTT GGA
1665 CTT	1719 . ATT	1773 AAT	1827 AAC	1881 CAT	1935 GCC	1989 . CAC	2043 GAA	2097 AGA
10 G	1. 'A'	1. C. 2	18 A A	18 G O	15 T G	13 T	20 C G	20 A A
2	5	AI	G.		Æ	TT	¥.	AA
GGA	TGG	AAA	CTG	GGT	GTA	TGG	TTT	AAA
1656 CTA	1710 TGT	1764 TTG	1791 1800 1809 1818 GTG ATC TCT TTG CAG AGC TAT AGA TAG AAA CAG CTG	1872 TYY CTG GGT	1926 : ACT	1980 TCT	2034	2051 2070 2079 2088 2097 CAC TGA ATG GGA ATT CTC TTA AGA AAC CCT GAG ATT AAA AAA AGA
r G	1 AC	TC 1	AA A	T.I.	17.	AA	2. 3T (2(AG /
E.	Ð	E	∢		Æ	E	Ā	5
TT	AC	AG	TA	LL	GA.	AA	GA2	Ş
1647 CCC	1701 'AGG	1755 GCC	1809 ' AGA	1863 ATT	1917 TTT	1971 AGG	2025 ATT	2079 AAC
1, 1,	1.	1. gg (12	18 C 7	17	15 A A	20 C A	20 A A
75	Į.	AG	TP	T	8	5	GT	AG
AAA	SSS	GTT	AGC	GCA	TTG	GTG	CAT	TTA
1638 . AGG	1692	1746 AGA	1800 CAG	1854 1863 TTC GGG GCA TAC ATT TTT	1899 1908 TCA AGA CTT AAT TTG	1962 CCA GGT GTG	2016 : AAT	2070 CTC
CP 1	T. I	GA GA	1G	ıc ı	AT '	7. A.	30 S	Z 5.
th Ch	£.	. O	Ţ		Α.		ĭ	Æ
Ţ	TC.	GTC	ŢĊŢ	GTJ	CI	ŢŢ	S	GGA
1629 ' ACC	1683 TCT	1737 GTG	1791 ATC	1845 ACA AAT GTT	1899 AGA	1953 CTC TTC TTC	2007 TCA CTC CTT	2061 ATG
16 T	16 T T	17 T G	17 G A	18 A A	18 A A	19 C T	20 A C	20 A A
AT		ပ္ပ	GI	AC			TC	72
1629 GCC ATT ACC TGG	TGA	ACA	AAT	AAT	TGC	TTC	AAT	'AC
_	-		~	~	-	-	4	0

TAA CIT ATA GGA AAG CCT AGA ACC TCC CAG TAG AGT GGG GAT TIT ITT CIT CTT CCC TIT CTC TIT TGG ACA ATA GIT AAA TIA GCA GIA TIA GIT AIG AGI TIG GIT GCA GTG TTC TTA TCT TGT GGG CTG ATT TCC AAA AAC CAC ATG CTG CTG AAT TTA CCA GGG ATC CTC ATA CCT CAC AAT GCA AAC CAC TTA CTA CCA GGC CTT TTT CTG TGT CCA CTG GAG AGC TTG AGC TCA CAC TCA AAG ATC AGA GGA CCT ACA GAG AGG GCT CTT TGG TTT GAG GAC CAT GGC TTA CCT TTC CTG CCT TTG ACC CAT CAC ACC CCA ITI CCI CCI CTI TCC CTC TCC CCG CTG CCA AAA AAA AAA AAA AAG GAA ACG TIT ATC ATG AAT CAA CAG GGT TTC AGT CCT TAT CAA AGA GAG ATG TGG AAA GAG CTA AAG AAA CCA CCC TTT GTT CCC AAC TCC ACT TTA CCC ATA TTT TAT GCA ACA

FIGURE 2F

2601 2610 2619 2628 2637 2646 CAA ACA CTG TCC TTT TGG GTC CCT TTC TTA CAG ATG GGA CCT CTT GAG GAA GGA

2655 ATT ATC GTA TTC FIGURE 2G

1 1 1	M M W R P S V L L L L L L L R H 922578 M A R G G R G R R L G L A L G L L L A L GI 1262 R GI 78036	329 51
17 21 2	GAOGKP - SPDAGPHGOGRVH 922578 VLAPRVLRAKPTVRKERVVR GI 1262:	
36 41 2	QAAPLSDAPHDDAHGNFQYD 922578 PDSELGERPPEDNQS-FQYD GI 12623	
56 60 2	HEAFLGREVAKEFDQLTPEE 922578 HEAFLGKEDSKTFDQLTPDE GI 12623	
76 80 16	SQARLGRIVDRMDRAGDGDG 922578 SKERLGKIVDRID - NDGDG GI 12623 SQARLGRIVDRMDLAGDSDG GI 78036	
96 98 36	WVSLAELRAWIAHTQQRHIR 922578 FVTTEELKTWIKRVQKRYIF GI 12623 WVSLAALRAWIAHTQQRHIR GI 78036	
116 118 56	DSVSAAWDTYDTDRDGRVGW 922578 DNVAKVWKDYDRDKDDKISW GI 12623 DSVSAAWHTYDTDRDGRVGW GI 78036	
136 138 76	EELRNATYGHY - APGEEFHD 922578 EELRNATYGHY - EPGEEFHD GI 12623	29 1
155 158 95	VEDAETYKKMLARDERRFRV 922578 SSDHHTFKKMLPRDERRFKA GI 12623 VEGP GI 78036	

FIGURE 3A

175 ADODGDSMATREELTAFLHP	922578
178 ADLNGDLTATREEFTAFLHP	GI 1262329
195 EEFPHMRDIVIAETLEDLDR	922578
198 EEFEHMKEIVVLETLEDIDK	GI 1262329
215 NKDGYVOVEEYIADLYSAEP	922578
218 NGDGFVDQDEYIADMFSHEE	GI 1262329
235 GEEEPAWVQTERQQFRDFRD	922578
238 NGPEPDWVLSEREQFNEFRD	GI 1262329
255 LNKDGHLDGSEVGHWVLPPA	922578
258 LNKDGKLDKDEIRHWILPQD	GI 1262329
275 Q D Q P L V E A N H L L H E S D T D K D	922578
278 Y D H A Q A E A R H L V Y E S D K N K D	GI 1262329
295 GRLSKAEILGNWNMFVGSQA	922578
298 EKLTKEEILENWNMFVGSQA	GI 1262329
315 TNYGEDLTRHHDEL	922578
318 TNYGEDLTKNHDEL	GI 1262329

MDL - - - ROFLMCLSLCTAF 1601793 1 MARGGRGRGLGLALGLLAL GI 1262329 17 ALS - - - - - KPTEKKDRV - H 1601793 21 VLAPRVLRAKPTVRKERVVR GI 1262329 30 HEPOLSDKVHNDAQSFDYDH 1601793 PDSELGERPPEDNOSFQYDH GI 1262329 41 50 DAFLGAEEAKTFDQLTPEES 1601793 EAFLGKEDSKTFDOLTPDES GI 1262329 61 70 KERLGKIV<u>SK</u>ID<u>G</u>D<u>K</u>DGFVT 1601793 KERLGKIVDRIDNDGDGFVT GI 1262329 81 VDELKDWIKFAQKRWIYEDV 1601793 101 TEELKTWIKRVOKRYIFDNV GI 1262329 110 EROWKGHDLNEDGLVSWEEY 1601793 121 AKVWKDYDRDKDDKISWEEY GI 1262329 130 K N A T Y G Y V L D D P - - - D P D D 1601793 141 KQATYGYYLGNPAEFHDSSDGI 1262329 146 GFNYKOMMVRDERRFKMADK 1601793 161 HHTFKKMLPRDERRFKAADL GI 1262329 166 DGDLIATKEEFTAFLHPEEY 1601793 181 NGDLTATREEFTAFLHPEEF GI 1262329 186 <u>DYMKDIVVOETM</u>EDIDKN<u>A</u>D 1601793 201 EHMKEIVVLETLEDIDKNGD GI 1262329

206 GFIDLEEYIGDMYSHDGNTD 1601793 221 GFVDQDEYIADMFSHEENGP GI 1262329 226 E PEWVKTEREQFVEFRDKNR 1601793
241 E PDWVLSEREQFNEFRDLNK GI 1262329
246 DGKMDKEETKDWILPSDYDH 1601793
261 DGKLDKDEIRHWILPQDYDH GI 1262329
266 AEAEARHLVYESDONKDGKL 1601793
281 AQAEARHLVYESDKNKDEKL GI 1262329
286 TKEEIVDKYDLFVGSQATDF 1601793
301 TKEEILENWNMFVGSQATNY GI 1262329
306 GEALVR-HDEF 1601793
321 GEDLTKNHDEL GI 1262329

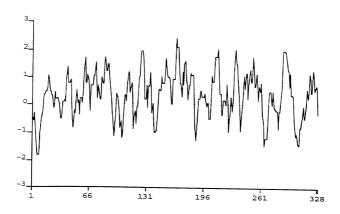


FIGURE 5A

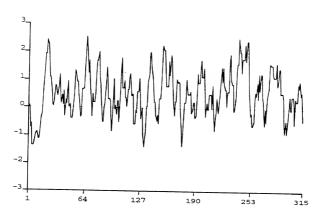


FIGURE 5B

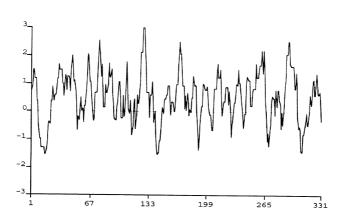


FIGURE 5C